

SMA Male Bulkhead Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable

SMA male bulkhead connector with solder/solder attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR and FM-SR141CUTN-COIL, part number FMCN1943, from Fairview Microwave is in-stock and ships same day. This SMA male connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.2:1. The SMA male connector also has low passive intermodulation (PIM) of -155 dBc. Fairview's FMCN1943 bulkhead SMA connector enables designers to make external connections on product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Fairview's SMA male bulkhead connector FMCN1943 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.



Configuration:

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR-141CUTN-COIL Interface Type
- Solder/Solder Attachment
- Bulkhead
- Low PIM Design

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.2:1	
Passive Intermodulation			-155	dBc
DWV (AC)			750	Vrms

Mechanical Specifications

Size	
Length	0.71 in [18.03 mm]
Width/Dia.	0.36 in [9.14 mm]
Height	0.36 in [9.14 mm]
Weight	0.008 lbs [3.63 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Silver
Insulation	PTFE	
Body	Brass	Tri-Metal
Coupling Nut	Brass	Tri-Metal

Features:

- Operating Frequency of 6 GHz Max.
- Excellent VSWR of 1.2:1
- PIM levels better than -155 dBc
- Silver Plated Beryllium Copper Contact

Applications:

- General Purpose Test
- Rack and Panel Mount Applications
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications

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Environmental Specifications

Temperature

Operating Range -40 to +155 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

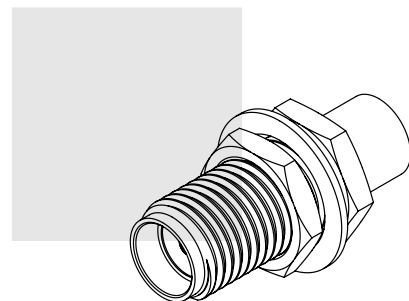
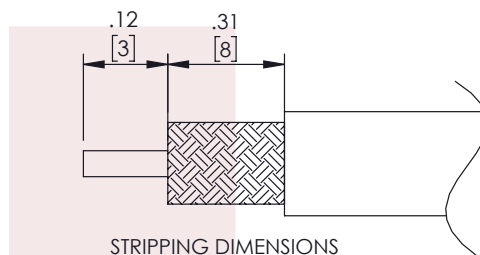
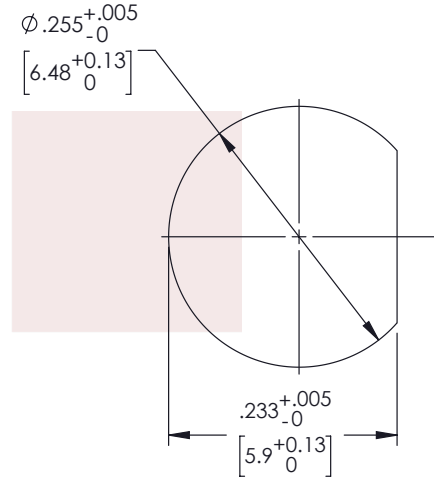
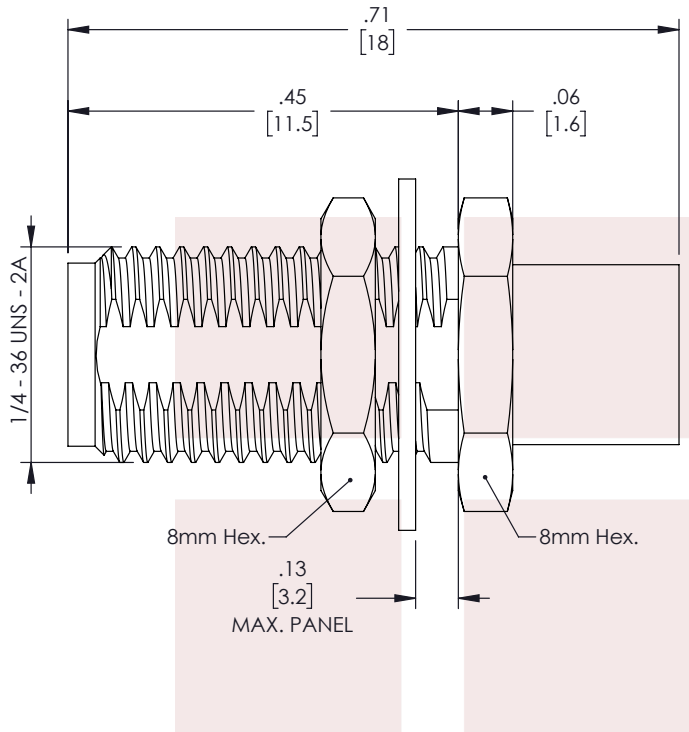
SMA Male Bulkhead Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Male Bulkhead Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable FMCN1943](#)

URL: <https://www.fairviewmicrowave.com/sma-male-fm-sr141tb-fm-sr141tbj-fm-sr141cu-str-fm-sr141cutn-coil-connector-fmcn1943-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	8/17/2022	AGANWANI



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TITLE

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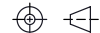
TOLERANCES:

.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ± 1/32
XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE

N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	PSRINIVAS	FMCN1943	A

T-Rev D

QMA Male Right Angle Connector Solder Attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402

RA QMA male connector with solder/solder attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN and RG402, part number FMCN1889, from Fairview Microwave is in-stock and ships same day. This QMA male connector operates up to a maximum frequency of 18 GHz. The QMA male connector also has low passive intermodulation (PIM) of -130 dBc. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA QMA male connector FMCN1889 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		18	GHz
Passive Intermodulation using 2x20W tones			-130	dBc
Operating Voltage (AC)			335	Vrms
Test Voltage (AC)			1,000	Vrms
Inner Cond. DC Resistance			3	mOhms
Outer Cond. DC Resistance			2.5	mOhms
Insulation Resistance	5,000			MOhms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	DC to 3	3 to 4	4 to 6			GHz
VSWR, Max	1.06:1	1.09:1	1.12:1			

Electrical Specification Notes:

RF leakage: 95 dB (up to 2 GHz), 80 dB (up to 4 GHz), 70 dB (up to 6 GHz) min.

Insertion loss = $0.05 \times \sqrt{f(\text{GHz})}$ dB max up to 6 GHz.

Mechanical Specifications

Size	
Length	0.79 in [20.07 mm]
Width/Dia.	0.433 in [11.00 mm]
Height	0.5 in [12.7 mm]
Weight	0.016 lbs [7.26 g]
Mating Cycles	100 Cycles



Configuration:

- QMA Male Connector
- 50 Ohms
- Right Angle Body Geometry
- FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402 Interface Type
- Solder/Solder Attachment

Features:

- Operating Frequency of 18 GHz Max.
- PIM levels better than -130 dBc
- Gold over Nickel Plated Brass Contact
- 0.15 μm minimum contact plating

Applications:

- General Purpose Test
- Custom Cable Assemblies

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Material Specifications

Description	Material	Plating
Contact	Brass	Gold over Nickel 0.15 µm minimum
Insulation	PTFE	
Outer Conductor	Spring Bronze	Tri-Metal
Body	Brass	Gold 0.15 µm minimum

Environmental Specifications
Temperature

Operating Range
Storage Range

-40 to +85 deg C
-40 to +85 deg C

Humidity

IEC 60169-1 16.3 (96 hours)

Vibration

IEC 60068-2-64 random

Thermal Shock

IEC 60169-1 16.4 (-40/+85°C)

Salt Spray

IEC 60109-1 16.7 (48 hrs)

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

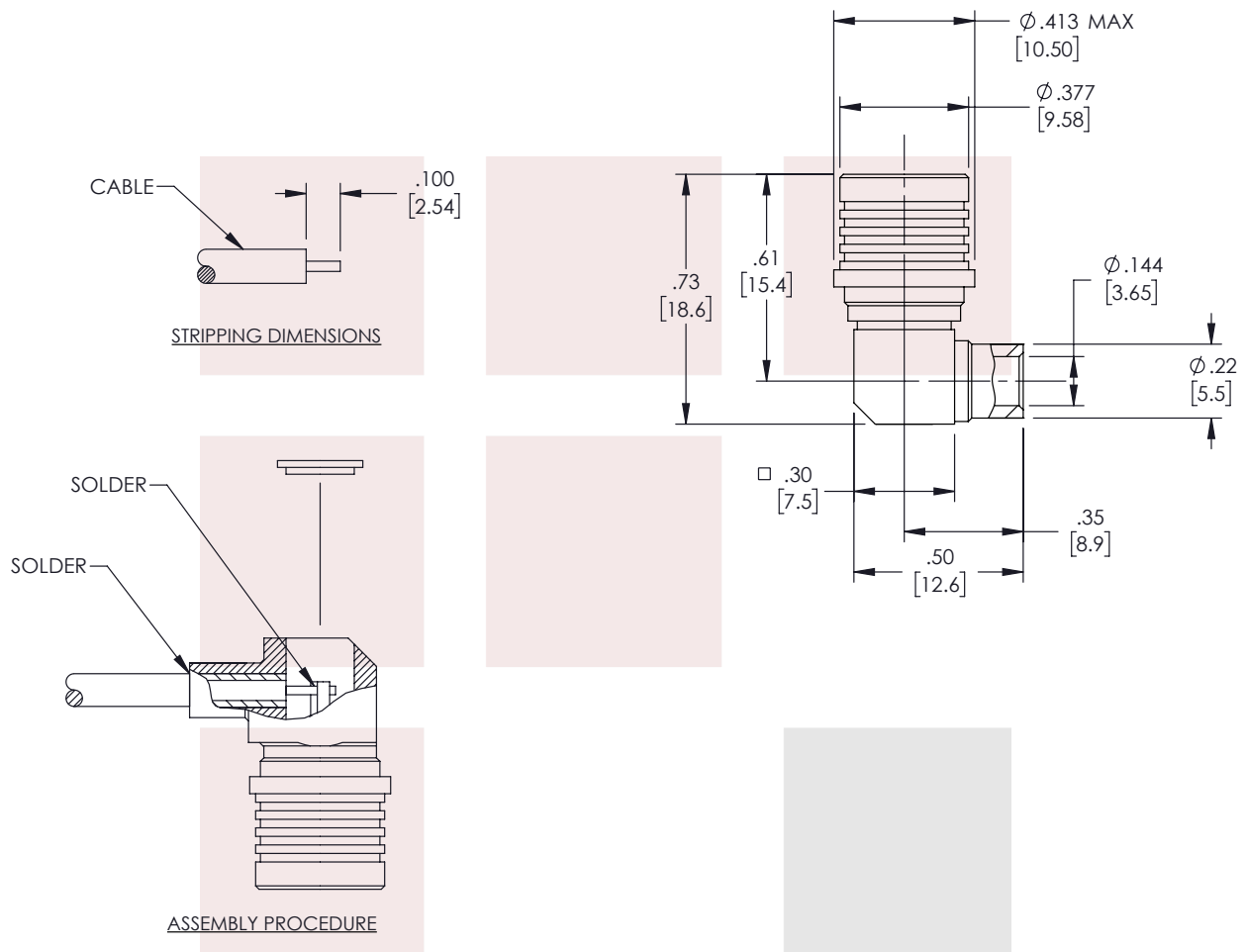
QMA Male Right Angle Connector Solder Attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402 from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [QMA Male Right Angle Connector Solder Attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402 FMCN1889](#)

URL: <https://www.fairviewmicrowave.com/qma-male-fm-sr141altn-fm-sr141tb-fm-sr141tbj-fm-sr141cutn-rg402-connector-fmcn1889-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/22/2022	AGANWANI



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TITLE

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for FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402

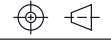
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THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE

N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	AKRESOWSK	FMCN1889	A

T-Rev.D

.141 Semi-rigid Formable Coax Cable Black FEP Jacket

Formable semi-rigid coax is a hand formable version of standard semi-rigid that does not require complicated and costly preformed cable assemblies. Because the dimensions and electrical characteristics are so closely matched to semi-rigid coax, standard semi-rigid connectors can be used. The tin soaked copper braid outer shield provides excellent RF shielding. FEP Jacket reduces the chance of shorting exposed contacts or circuit conductors.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		20	GHz
Cutoff Frequency		34		GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Time Delay		1.43 [4.69]		ns/ft [ns/m]
Shielding Effectiveness	110			dB
Operating Voltage (AC)			1,900	Vrms
Nominal Capacitance		29 [95.14]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	20	GHz
Attenuation, Typ	8 26.25	12 39.37	29 95.14	45 147.64	70 229.66	dB/100ft dB/100m

Mechanical Specifications

Diameter	0.161 in [4.09 mm]
Weight	0.032 lbs/ft [0.05 Kg/m]
Min. Bend Radius (Installation)	0.315 in [8 mm]
Min. Bend Radius (Repeated)	1.575 in [40.01 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strands	0.036 in [0.91 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.117 in [2.97 mm]
First Shield	Tinned Copper Braid	
Jacket	FEP, Black	0.161 in [4.09 mm]



Configuration:

- Formable Cable
- 1 Shield(s)

Features:

- Dimensionally the same as standard solid outer conductor semi-rigid coax
- Standard semi-rigid connectors can be used
- Cable is hand formable and does not require special tools to bend
- Connectors are easily soldered to Tin soaked outer conductor
- Cable can be formed more than once without damage to outer conductor
- High RF Shielding >100 dB

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sales@fairviewmicrowave.com

Environmental Specifications

Temperature

Operating Range -65 to 150 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

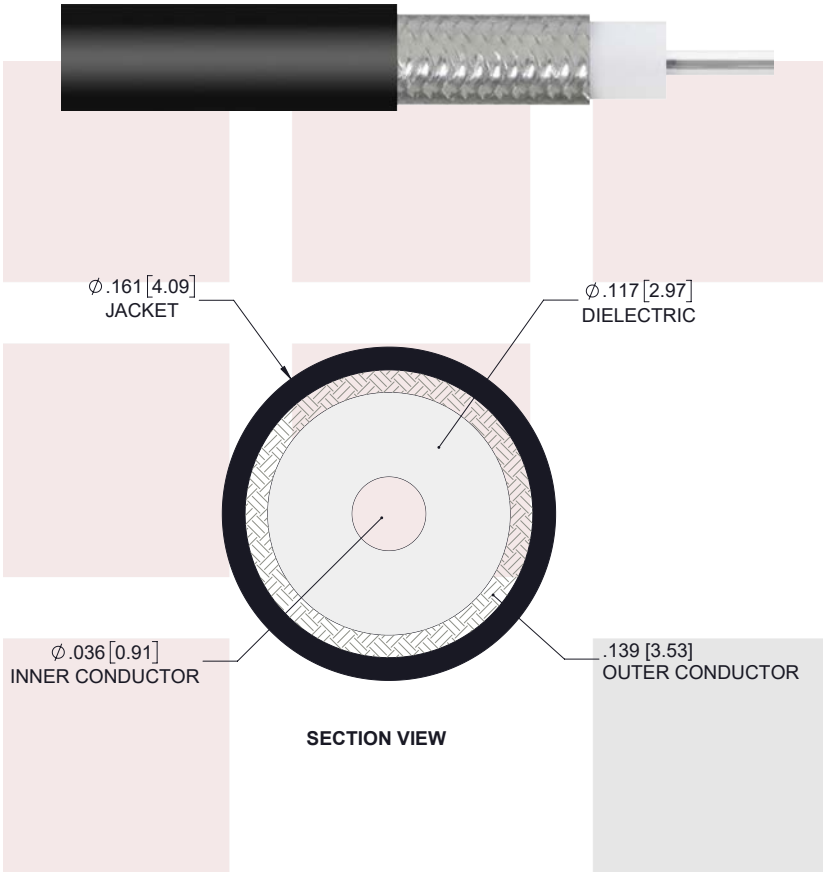
.141 Semi-rigid Formable Coax Cable Black FEP Jacket from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [.141 Semi-rigid Formable Coax Cable Black FEP Jacket FM-SR141TBJ](#)

URL: <https://www.fairviewmicrowave.com/fm-sr141tbj-formable-coax-cable-fep-jacket-fm-sr141tbj-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/22/19	S.ELLIS



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		SIZE A CAGE CODE 3FKR5 DRAWN BY K.DANG PART NUMBER FM-SR141TBJ REV A		SHEET 1 OF 1 SCALE N/A	

T-Rev.D